- **10** 7. A method according to claim 6 further comprising the
- 6. A method for producing a steered acoustic beam, the method comprising the steps of: providing three or more ultrasonic acoustic wave
 - transmitters, each producing an ultrasonic acoustical wave that has a wavelength and a phase;
 - positioning the three or more ultrasonic acoustic wave transmitters in a linear array spaced within one wavelength of an adjacent transmitter; and
 - adjusting the relative phase of selected acoustic wave transmitters to produce a steered acoustic beam.
- - receiving a reflected acoustic signal generated by the reflection of the steered acoustic beam off an object;
 - determining at least one of range, angular extent and angular direction of the object from the reflected steered acoustic beam.